

FOR NATIONAL PHASE SUBMISSION

CLAIM AMENDMENTS

WHAT IS CLAIMED IS:

This listing of the claims will replace all prior versions, and listing, of claims in the application:

1. **(Currently Amended)** A piezo actuator-(15), in particular a piezo actuator for actuating an injector for an injection system of an internal combustion engine, having comprising a holder-(5-10) for spatially fixing a piezo stack-(2) and two associated connection pins-(11, 12) for electrical contacting of the piezo stack-(2), ~~characterized by wherein the holder is being~~ implemented as an individual mount for accommodating and holding only a single piezo stack-(2) with two associated connection pins-(11, 12).
2. **(Currently Amended)** The A piezo actuator-(15) as according to claimed in claim 1, ~~characterized in that~~ wherein the holder-(5-10) has an edge guard-(7, 8) for protecting an axially running edge of the piezo stack-(2).
3. **(Currently Amended)** A piezo actuator according to claim 2, wherein ~~The piezo actuator-(15) as claimed in claim 2, characterized in that~~ the edge protection has at least one axially running rib-(7, 8) which covers an axially running edge of the piezo stack-(2).

4. (Currently Amended) A piezo actuator according to claim 2, wherein The piezo actuator (15) as claimed in claim 2 or 3, characterized in that the edge protection (7, 8) covers two axially running, opposite edges of the piezo stack (2).

5. (Currently Amended) A piezo actuator according to claim 1, wherein The piezo actuator (15) as claimed in one of the preceding claims, characterized in that between the edge guard (7, 8) and the piezo stack (2) there is a gap large enough to allow a potting compound to penetrate during encapsulation.

6. (Currently Amended) A piezo actuator according to claim 1, wherein The piezo actuator (15) as claimed in one of the preceding claims, characterized in that the axially running edges of the piezo stack (2) form an at least six-sided polygon with the connection pins (11, 12) and the edge guard (7, 8) in cross-section in order to facilitate wire winding.

7. (Currently Amended) A piezo actuator according to claim 6, wherein The piezo actuator (15) as claimed in claim 6, characterized in that the polygon is essentially equilateral in order to allow wire winding with approximately constant wire tension.

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8. (Currently Amended) A piezo actuator according to
claim 1, wherein The piezo actuator (15) as claimed in one of
the preceding claims, characterized in that
the connection pins (11, 12) are fixed in the holder in a
form-fit and/or force-fit manner.

9. (Currently Amended) A piezo actuator according to
claim 8, wherein The piezo actuator (15) as claimed in claim
8, characterized in that the connection pins
(11, 12) are extrusion-coated or molded in with the material
of the holder (5-10).

10. (Currently Amended) A piezo actuator according to
claim 1, wherein The piezo actuator (15) as claimed in one of
the preceding claims, characterized in that
the holder (5-10) essentially consists of plastic.

11. (Currently Amended) A piezo actuator according to
claim 1, wherein The piezo actuator (15) as claimed in one of
the preceding claims, characterized in that
the two connection pins (11, 12) are fixed in the holder (5-
10) in two radial bearings in each case.

12. (Currently Amended) A piezo actuator according to
claim 1, wherein The piezo actuator (15) as claimed in one of
the preceding claims, characterized in that
the two connection pins (11, 12) are axially fixed in the
holder (5-10) in a thrust bearing in each case.

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13. (Currently Amended) A piezo actuator according to claim 1, wherein The piezo actuator (15) as claimed in one of the preceding claims, characterized in that the holder (5-10) has a first end plate (5) with a cutout (9) for guiding the piezo stack (2) at one end and a second end plate (6) with a cutout (10) for guiding the piezo stack (2) at its other end, the two end plates (5, 6) being interconnected by ribs (7, 8).

14. (Currently Amended) A piezo actuator according to claim 13, wherein The piezo actuator (15) as claimed in claim 13, characterized in that the cutout (9) in the first end plate (5) and/or the cutout (10) in the second end plate (6) is larger than the cross-sectional area of the piezo stack (2) in order to allow the penetration of potting compound.

15. (Currently Amended) A piezo actuator according to claim 1, wherein The piezo actuator (15) as claimed in one of the preceding claims, characterized in that the holder (5-10) with the inserted piezo stack (2) and the inserted connection pins (11, 12) is encapsulated with a potting compound.

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16. (Currently Amended) A production method for a piezo actuator—(15) comprising the following steps:

- Inserting a piezo stack—(2) and two connection pins (11, 12) in an assembly mount—(1),
- Establishing an electrical connection between the two connection pins—(11, 12) and the piezo stack—(2) while the piezo stack—(2) and the connection pins—(11, 12) are inserted in the assembly mount—(1), ~~characterized in that and~~
- ~~the assembly mount (1) only accommodates only a single piezo stack (2) and the two associated connection pins (11, 12) by the assembly mount.~~

17. (Currently Amended) ~~The A~~ production method as claimed in claim 16,

~~characterized by~~ comprising the following step:

- Encapsulating the assembly mount—(1) with the inserted piezo stack—(2) and the inserted connection pins (11, 12) with a cure-hardening potting compound.

18. (Currently Amended) ~~A production method as claimed in claim 17, comprising~~
~~The production method as claimed in~~
~~claim 17, characterized by~~ the following steps:

- Inserting the assembly mount—(1) with the inserted piezo stack—(2) and the inserted connection pins—(11, 12) in a mold and then
- Encapsulating the assembly mount—(1) with the potting compound in the mold.

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19. (Currently Amended) A production method as claimed in claim 18, comprising ~~The production method as claimed in one of the claims 16 to 18, characterized by the following steps:~~

- Winding the assembly mount-(1) with the inserted piezo stack-(2) and the inserted connection pins-(11, 12) with at least one electrically conductive wire-(14),
- Electrically connecting sections of the wire-(14) to one of the two connection pins-(11, 12) and one of two terminals-(4) of the piezo stack-(2),
- Cutting the wire-(14) between the contacted wire sections and removing the cut wire sections.

20. (Currently Amended) A production method as claimed in claim 16, wherein ~~The production method as claimed in one of the claims 16 to 19, characterized in that~~ the assembly mount-(1) has at least one edge guard-(7, 8) in order to protect an axially running edge of the piezo stack-(2).

21. (Currently Amended) A production method as claimed in claim 15, wherein ~~The production method as claimed in one of the claims 15 to 20, characterized in that~~ the potting compound is silicone.